RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 09 699 667F

Source: IFW16

Date Processed by STIC: 6/13/06

ENTERED

IFW16

RAW SEQUENCE LISTING   DATE: 06/13/2006
PATENT APPLICATION: US/09/699,667F   TIME: 09:57:24

Input Set : A:\85761-25.ST25 v2.txt
Output Set: N:\CRF4\06132006\I699667F.raw


```
        3 <110> APPLICANT: Perreault, Jean-Pierre
        4        Ananvoranich, Sirinart
        5        Lafontaine, Daniel
        7 <120> TITLE OF INVENTION: Nucleic Acid Enzyme for RNA Cleavage
        9 <130> FILE REFERENCE: 258/235
       11 <140> CURRENT APPLICATION NUMBER: US 09/699,667F
C-->   12 <141> CURRENT FILING DATE: 2000-10-30
       14 <150> PRIOR APPLICATION NUMBER: CA 2,230,203
       15 <151> PRIOR FILING DATE: 1998-04-29
       17 <150> PRIOR APPLICATION NUMBER: PCT/CA1999/000391
       18 <151> PRIOR FILING DATE: 1999-04-29
       21 <160> NUMBER OF SEQ ID NOS: 66
       23 <170> SOFTWARE: PatentIn version 3.3
       25 <210> SEQ ID NO: 1
       26 <211> LENGTH: 11
       27 <212> TYPE: DNA
       28 <213> ORGANISM: Artificial Sequence
       30 <220> FEATURE:
       31 <223> OTHER INFORMATION: Description of Artificial Sequence: nucleotide
       32        sequence comprised of ribonucleotides or a
       33        combination of ribonucleotides and
       34        deoxyribonucleotides
       36 <220> FEATURE:
       37 <221> NAME/KEY: misc_feature
       38 <222> LOCATION: (1) ... (11)
       39 <223> OTHER INFORMATION: n is a or g or c or t/u, unknown, or other
       41 <400> SEQUENCE: 1
W-->   42 nnrhgnnhnn n                                          11
       45 <210> SEQ ID NO: 2
       46 <211> LENGTH: 11
       47 <212> TYPE: DNA
       48 <213> ORGANISM: Artificial Sequence
       51 <220> FEATURE:
       52 <223> OTHER INFORMATION: Description of Artificial Sequence: nucleotide
       53        sequence comprised of ribonucleotides or a
       54        combination of ribonucleotides and
       55        deoxyribonucleotides
       57 <220> FEATURE:
       58 <221> NAME/KEY: misc_feature
       59 <222> LOCATION: (6) ... (11)
       60 <223> OTHER INFORMATION: n is a or g or c or t/u, unknown, or other
       62 <400> SEQUENCE: 2
W-->   63 rrrhgnnhnn n                                          11
```

CPS.6)

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Input Set : **A:\85761-25.ST25 v2.txt**
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```
 66 <210> SEQ ID NO: 3
 67 <211> LENGTH: 11
 68 <212> TYPE: DNA
 69 <213> ORGANISM: Artificial Sequence
 71 <220> FEATURE:
 72 <223> OTHER INFORMATION: Description of Artificial Sequence: nucleotide
 73       sequence comprised of ribonucleotides or a
 74       combination of ribonucleotides and
 75       deoxyribonucleotides
 77 <220> FEATURE:
 78 <221> NAME/KEY: misc_feature
 79 <222> LOCATION: (6) ... (11)
 80 <223> OTHER INFORMATION: n is a or g or c or t/u, unknown, or other
 82 <400> SEQUENCE: 3
```
W--> 83 gggcgnnunn n   11
```
 86 <210> SEQ ID NO: 4
 87 <211> LENGTH: 11
 88 <212> TYPE: DNA
 89 <213> ORGANISM: Artificial Sequence
 91 <220> FEATURE:
 92 <223> OTHER INFORMATION: Description of Artificial Sequence: nucleotide
 93       sequence comprised of ribonucleotides or a
 94       combination of ribonucleotides and
 95       deoxyribonucleotides
 97 <220> FEATURE:
 98 <221> NAME/KEY: misc_feature
 99 <222> LOCATION: (6) ... (11)
100 <223> OTHER INFORMATION: n is a or g or c or t/u, unknown, or other
102 <400> SEQUENCE: 4
```
W--> 103 gggcgnnhnn n   11
```
106 <210> SEQ ID NO: 5
107 <211> LENGTH: 11
108 <212> TYPE: DNA
109 <213> ORGANISM: Artificial Sequence
111 <220> FEATURE:
112 <223> OTHER INFORMATION: Description of Artificial Sequence: nucleotide
113       sequence comprised of ribonucleotides or a
114       combination of ribonucleotides and
115       deoxyribonucleotides
117 <220> FEATURE:
118 <221> NAME/KEY: misc_feature
119 <222> LOCATION: (6) ... (11)
120 <223> OTHER INFORMATION: n is a or g or c or t/u, unknown, or other
122 <400> SEQUENCE: 5
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W--> 123 gggugnnunn n   11
```
126 <210> SEQ ID NO: 6
127 <211> LENGTH: 12
128 <212> TYPE: DNA
129 <213> ORGANISM: Artificial Sequence
```

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```
131 <220> FEATURE:
132 <223> OTHER INFORMATION: Description of Artificial Sequence: nucleotide
133       sequence comprised of ribonucleotides or a
134       combination of ribonucleotides and
135       deoxyribonucleotides
137 <220> FEATURE:
138 <221> NAME/KEY: misc_feature
139 <222> LOCATION: (6) ... (12)
140 <223> OTHER INFORMATION: n is a or g or c or t/u, unknown, or other
142 <400> SEQUENCE: 6
```
W--> 143 gggugnncnn nn   12
```
146 <210> SEQ ID NO: 7
147 <211> LENGTH: 11
148 <212> TYPE: DNA
149 <213> ORGANISM: Artificial Sequence
151 <220> FEATURE:
152 <223> OTHER INFORMATION: Description of Artificial Sequence: nucleotide
153       sequence comprised of ribonucleotides or a
154       combination of ribonucleotides and
155       deoxyribonucleotides
157 <220> FEATURE:
158 <221> NAME/KEY: misc_feature
159 <222> LOCATION: (6) ... (11)
160 <223> OTHER INFORMATION: n is a or g or c or t/u, unknown, or other
162 <400> SEQUENCE: 7
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W--> 163 aaacgnnunn n   11
```
166 <210> SEQ ID NO: 8
167 <211> LENGTH: 11
168 <212> TYPE: DNA
169 <213> ORGANISM: Artificial Sequence
171 <220> FEATURE:
172 <223> OTHER INFORMATION: Description of Artificial Sequence: nucleotide
173       sequence comprised of ribonucleotides or a
174       combination of ribonucleotides and
175       deoxyribonucleotides
177 <220> FEATURE:
178 <221> NAME/KEY: misc_feature
179 <222> LOCATION: (6) ... (11)
180 <223> OTHER INFORMATION: n is a or g or c or t/u, unknown, or other
182 <400> SEQUENCE: 8
```
W--> 183 yhrhgnnhnn n   11
```
186 <210> SEQ ID NO: 9
187 <211> LENGTH: 11
188 <212> TYPE: RNA
189 <213> ORGANISM: Artificial Sequence
191 <220> FEATURE:
192 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic RNA
193       sequence
195 <400> SEQUENCE: 9
```

RAW SEQUENCE LISTING
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Input Set : **A:\85761-25.ST25 v2.txt**
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```
196 gggcgggucg g                                                   11
199 <210> SEQ ID NO: 10
200 <211> LENGTH: 10
201 <212> TYPE: RNA
202 <213> ORGANISM: Artificial Sequence
204 <220> FEATURE:
205 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic RNA
206       sequence
208 <400> SEQUENCE: 10
209 gggcgggucg                                                     10
212 <210> SEQ ID NO: 11
213 <211> LENGTH: 11
214 <212> TYPE: RNA
215 <213> ORGANISM: Artificial Sequence
217 <220> FEATURE:
218 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic RNA
219       sequence
221 <400> SEQUENCE: 11
222 gggcaggucg g                                                   11
225 <210> SEQ ID NO: 12
226 <211> LENGTH: 11
227 <212> TYPE: RNA
228 <213> ORGANISM: Artificial Sequence
230 <220> FEATURE:
231 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic RNA
232       sequence
234 <400> SEQUENCE: 12
235 gggccggucg g                                                   11
238 <210> SEQ ID NO: 13
239 <211> LENGTH: 11
240 <212> TYPE: RNA
241 <213> ORGANISM: Artificial Sequence
243 <220> FEATURE:
244 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic RNA
245       sequence
247 <400> SEQUENCE: 13
248 gggcgagucg g                                                   11
251 <210> SEQ ID NO: 14
252 <211> LENGTH: 11
253 <212> TYPE: RNA
254 <213> ORGANISM: Artificial Sequence
256 <220> FEATURE:
257 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic RNA
258       sequence
260 <400> SEQUENCE: 14
261 gggcgugucg g                                                   11
264 <210> SEQ ID NO: 15
265 <211> LENGTH: 11
266 <212> TYPE: RNA
```

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Input Set : **A:\85761-25.ST25 v2.txt**
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```
267 <213> ORGANISM: Artificial Sequence
269 <220> FEATURE:
270 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic RNA
271       sequence
273 <400> SEQUENCE: 15
274 gggcggaucg g                                              11
277 <210> SEQ ID NO: 16
278 <211> LENGTH: 11
279 <212> TYPE: RNA
280 <213> ORGANISM: Artificial Sequence
282 <220> FEATURE:
283 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic RNA
284       sequence
286 <400> SEQUENCE: 16
287 gggcgguucg g                                              11
290 <210> SEQ ID NO: 17
291 <211> LENGTH: 11
292 <212> TYPE: RNA
293 <213> ORGANISM: Artificial Sequence
295 <220> FEATURE:
296 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic RNA
297       sequence
299 <400> SEQUENCE: 17
300 gggcgggccg g                                              11
301 <210> SEQ ID NO: 18
302 <211> LENGTH: 11
303 <212> TYPE: RNA
304 <213> ORGANISM: Artificial Sequence
306 <220> FEATURE:
307 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic RNA
308       sequence
310 <400> SEQUENCE: 18
311 gggcggggcg g                                              11
314 <210> SEQ ID NO: 19
315 <211> LENGTH: 11
316 <212> TYPE: RNA
317 <213> ORGANISM: Artificial Sequence
319 <220> FEATURE:
320 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic RNA
321       sequence
323 <400> SEQUENCE: 19
324 gggcggguag g                                              11
327 <210> SEQ ID NO: 20
328 <211> LENGTH: 11
329 <212> TYPE: RNA
330 <213> ORGANISM: Artificial Sequence
332 <220> FEATURE:
333 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic RNA
334       sequence
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 06/13/2006
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Input Set : **A:\85761-25.ST25 v2.txt**
Output Set: **N:\CRF4\06132006\I699667F.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 1,2,6,7,9,10,11
Seq#:2; N Pos. 6,7,9,10,11
Seq#:3; N Pos. 6,7,9,10,11
Seq#:4; N Pos. 6,7,9,10,11
Seq#:5; N Pos. 6,7,9,10,11
Seq#:6; N Pos. 6,7,9,10,11,12
Seq#:7; N Pos. 6,7,9,10,11
Seq#:8; N Pos. 6,7,9,10,11
Seq#:61; N Pos. 20,21,22,23,24,25
Seq#:62; N Pos. 20,21,22,23,24,25
Seq#:63; N Pos. 20,21,22,23,24,25
Seq#:65; N Pos. 20,21,22,23,24,25

Invalid Line Length:
The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 25,26,27,28,29,30,31,32,33,36,39,40,41,45
Seq#:2; Line(s) 46,47,51,52,53,54,57,60,61,62,66
Seq#:3; Line(s) 67,68,71,72,73,74,77,80,81,82,85,86
Seq#:4; Line(s) 87,88,91,92,93,94,96,97,100,101,102,105,106
Seq#:5; Line(s) 107,108,109,111,112,113,114,115,117,120,121,122,126
Seq#:6; Line(s) 127,128,129,131,132,133,134,135,137,140,141,142,146
Seq#:7; Line(s) 147,148,151,152,153,154,157,160,161,162,166
Seq#:8; Line(s) 167,168,169,171,172,173,174,175,177,180,181,182,186
Seq#:9; Line(s) 187,188,189,190,191,192,193,194,195,199
Seq#:10; Line(s) 200,201,202,203,204,205,206,207,208,212
Seq#:11; Line(s) 213,214,215,216,217,218,219,220,221,225
Seq#:12; Line(s) 226,227,228,229,230,231,232,233,234,238
Seq#:13; Line(s) 239,240,241,242,243,244,245,246,247,251
Seq#:14; Line(s) 252,253,254,255,256,257,258,259,260,264
Seq#:15; Line(s) 265,266,267,268,269,270,271,272,273,275,277
Seq#:16; Line(s) 278,279,280,281,282,283,284,285,286,290
Seq#:17; Line(s) 291,292,293,294,295,296,297,299,301
Seq#:18; Line(s) 302,303,304,305,306,307,308,309,310,314
Seq#:19; Line(s) 315,316,317,318,319,320,321,322,323,327
Seq#:20; Line(s) 328,329,330,331,332,333,334,335,336,340
Seq#:21; Line(s) 341,342,343,344,345,346,347,348,349,353
Seq#:22; Line(s) 354,355,356,357,358,359,360,361,362,366
Seq#:23; Line(s) 367,368,369,370,371,372,373,374,375,379
Seq#:24; Line(s) 380,381,382,383,384,385,386,387,388,392
Seq#:25; Line(s) 393,394,395,396,397,398,399,400,401,405
Seq#:26; Line(s) 406,407,408,409,410,411,412,413,414,418
Seq#:27; Line(s) 419,420,421,422,423,424,425,426,427,431

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```
Seq#:28; Line(s) 432,433,434,435,436,437,438,439,440,444
Seq#:29; Line(s) 445,446,447,448,449,450,451,452,453,457
Seq#:30; Line(s) 458,459,460,461,462,463,464,465,466,470
Seq#:31; Line(s) 471,472,473,474,475,476,477,478,479,483
Seq#:32; Line(s) 484,485,486,487,488,489,490,491,492,496
Seq#:33; Line(s) 497,498,499,500,501,502,503,504,505,509
Seq#:34; Line(s) 510,511,512,513,514,515,516,517,518,522
Seq#:35; Line(s) 523,524,525,526,527,528,529,530,531,535
Seq#:36; Line(s) 536,537,538,539,541,542,543,544,545,549
Seq#:37; Line(s) 550,551,552,553,554,555,556,557,558,562
Seq#:38; Line(s) 563,564,565,566,567,568,569,570,571,575
Seq#:39; Line(s) 576,577,578,579,580,581,582,583,584,588
Seq#:40; Line(s) 589,590,591,592,593,594,595,596,598,602
Seq#:41; Line(s) 603,604,605,606,607,608,609,610,611,615
Seq#:42; Line(s) 616,617,618,619,620,621,622,623,624,628
Seq#:43; Line(s) 629,630,633,634,635,636,637,638,639,640,641,642,643,644
Seq#:43; Line(s) 645,646,650
Seq#:44; Line(s) 651,652,653,654,655,656,657,658,659,661
Seq#:45; Line(s) 662,663,664,665,666,667,668,669,670,674
Seq#:46; Line(s) 675,676,677,678,679,680,681,682,683,687
Seq#:47; Line(s) 688,689,690,691,692,693,694,695,696,700
Seq#:48; Line(s) 701,702,703,704,705,706,707,709,713
Seq#:49; Line(s) 714,715,716,717,718,719,720,721,722,726
Seq#:50; Line(s) 727,728,729,730,731,732,733,734,735,739
```

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```
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:42 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:63 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:83 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:103 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:123 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:143 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:163 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:183 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:886 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:0
L:907 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62 after pos.:0
L:927 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:0
L:977 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65 after pos.:0
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